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(54) Designation: ABRASIVE WITH IMPROVED ABRASIVE PROPERTIES

(57) Summary: Abrasive particles from the group of conventional abrasive particles, in particular fused or sintered corundums, zirconium corundums, silicon corundums, silicon carbides and boron carbide, for application in synthetic resin-bonded abrasives, characterized by the fact that on the surface they are provided with a coating consisting of 0.05 to 2.0 weight percent, relative to the weight of the untreated abrasive particle, of an aqueous binding agent on silicon basis and 0.05 to 5.0 weight percent, also relative to the weight of the untreated abrasive particle, of a complex, fine grained oxide compound of the general formula  $A_xB_yO_z$ , with A and B each being a group of elements and O being oxygen present in a stoichiometric ratio to A and B, and whereby the numbers x, y and z denote the composition of the complex oxides without being limited to whole numbers, and z corresponds to a product of the sum of (x+y) and a factor of between 1.5 and 2.5. The group of elements A concerns the group of metals in the periodic system of elements, while the group of elements B concerns the group of amphoteric elements in the periodic system. The complex, fine grained oxide compound  $A_xB_yO_z$  contains at least one element each from the group of metals and one element from the group of amphoteric elements of the periodic system. The aqueous binder on silicon basis is preferably colloidal silicic acid. Method for the coating of the abrasive particles in which the coated abrasive particles are subjected to a heat treatment between 100 and 900° C.